

COMPLETE LISTING OF ALL CLAIMS

Claim 1 (Currently Amended): A substantially hydrophobic active material particles adapted for formation of a battery electrode comprising:

a plurality of active particles, each of said active particles having an exterior surface area;

said plurality of active particles ~~formed~~ adapted for formation into an battery electrode with each of said particles electrically communicating with adjacent said active particles forming said electrode; ~~and~~

each individual active particle of said plurality of active particles, having a coating layer covering substantially all of said exterior surface area, said coating layer comprised of substantially hydrophobic coating material; ~~said coating material being substantially hydrophobic and;~~

whereby said active particles can be processed into said battery electrode using aqueous solutions.

Claim 2 (Currently Amended): The substantially hydrophobic material adapted for formation of a battery electrode of claim 1, ~~wherein~~ additionally comprising:

said plurality of active particles formed into a battery electrode; and

~~said coating material comprises a substantially hydrophobic polymer.~~

each of said active particles electrically communicating with adjacent particles formed into said electrode.

Claim 3 (Currently Amended): The substantially hydrophobic material adapted for formation of a battery electrode of claim 2, ~~wherein~~ additionally comprising:

said substantially hydrophobic polymer forming said coating layer is comprised of one or a combination of substantially hydrophobic polymers from ~~a~~ the group of substantially hydrophobic polymers consisting of EPDM and PVDF.

Claim 4 (Currently Amended): The substantially hydrophobic material adapted for formation of a battery electrode of claim 1 additionally comprising:

said coating ~~material~~ layer also containing ~~an~~ electrically conductive particles additive embedded therein.

Claim 5 (Currently Amended): The substantially hydrophobic material adapted for formation of a battery electrode of claim 2 additionally comprising:

said coating ~~material~~ layer also containing ~~an~~ electrically conductive particles additive embedded therein.

Claim 6 (Currently Amended): The substantially hydrophobic material adapted for formation of a battery electrode of claim 3 additionally comprising:

said coating ~~material~~ layer also containing ~~an~~ electrically conductive particles additive therein.

Claim 7 (Currently Amended): The substantially hydrophobic material adapted for formation of a battery electrode of claim 6, additionally comprising:

said electrically conductive ~~additive~~ particles being one or a combination of electrically conductive ~~additives~~ particles selected from a the group of electrically conductive additives including aluminum and carbon.

Claim 8 (Currently Amended): The substantially hydrophobic positive battery electrode of claim 1, wherein said coating material layer further comprises an ~~additionally comprising: said coating material also containing~~ ionically conductive particles embedded ~~additive~~ therein.

Claim 9 (Currently Amended): The substantially hydrophobic positive battery electrode of claim 2, wherein said coating material layer further comprises an ~~additionally comprising: said coating material also containing~~ ionically conductive particles embedded ~~additive~~ therein.

Claim 10 (Currently Amended): The substantially hydrophobic positive battery electrode of claim 4, wherein said coating material layer further comprises an ~~additionally comprising: said coating material also containing~~ ionically conductive particles embedded ~~additive~~ therein.

Claim 11 (Currently Amended): The substantially hydrophobic positive battery electrode of claim 5, wherein said coating material layer further comprises an ~~additionally comprising: said coating material also containing~~ ionically conductive particles embedded ~~additive~~ therein.

Claim 12 (Currently Amended): The substantially hydrophobic positive battery electrode of claim 6, wherein said coating material layer further comprises an ~~additionally comprising: said coating material also containing~~ ionically conductive particles embedded ~~additive~~ therein.

Claim 13 (canceled)

Claim 14 (canceled)

Claim 15 (canceled)

Claim 16 (canceled)

Claim 17 (canceled)

Claim 18 (Currently Amended): The substantially hydrophobic material adapted for formation of a battery electrode of claim 1, wherein said coating layer is comprised of aluminum. ~~additionally comprising: said coating material covering said exterior surface area being aluminum.~~

Claims 19-25 (withdrawn)

Claim 26 (Currently Amended): The substantially hydrophobic material adapted for formation of a battery electrode of claim 1, wherein said coating layer ~~covering said exterior surface area of each of said particles~~ has a ratio of coating weight to particle weight between 0.1% and 20%.

Claims 27-31 (withdrawn)

Claim 32 (new) The substantially hydrophobic material adapted for formation of a battery electrode of claim 1, wherein said plurality of active particles are formed of lithium metal oxides.

Claim 33 (new) The substantially hydrophobic material adapted for formation of a battery electrode of claim 2, wherein said plurality of active particles are formed of lithium metal oxides.

Claim 34 (new) The substantially hydrophobic material adapted for formation of a battery electrode of claim 3, wherein said plurality of active particles are formed of lithium metal oxides.

Claim 35 (new) The substantially hydrophobic material adapted for formation of a battery electrode of claim 4, wherein said plurality of active particles are formed of lithium metal oxides.

Claim 36 (new) The substantially hydrophobic material adapted for formation of a battery electrode of claim 5, wherein said plurality of active particles are formed of lithium metal oxides.

Claim 37 (new) The substantially hydrophobic material adapted for formation of a battery electrode of claim 6, wherein said plurality of active particles are formed of lithium metal oxides.

Claim 38 (new) Claim 28 (new) The substantially hydrophobic material adapted for formation of a battery electrode of claim 7, wherein said plurality of active particles are formed of lithium metal oxides.